**3.1 – Introduction to Chemical Reactions – Practice**

For the following word equations, write a chemical equation. For not, do not worry about balancing the equations. Feel free to break it down into steps!

1. When lithium hydroxide pellets are added to a solution of sulfuric acid, aqueous lithium sulfate and water are formed.
2. When solid C6H12O6 is burned in oxygen, carbon dioxide and water vapor are formed.
3. Solid zinc and aqueous lead (II) nitrate react to form zinc nitrate in solution and solid lead.
4. Aluminum bromide in solution and chlorine gas react to form aqueous aluminum chloride and bromine gas.
5. Sodium phosphate and calcium chloride react in solution to form calcium phosphate and sodium chloride, also in solution.
6. Potassium metal and chlorine gas combine to form a potassium chloride solid.
7. Solid aluminum and hydrochloric acid react to form aqueous aluminum chloride and hydrogen gas.
8. Calcium hydroxide in solution and phosphoric acid react to form a calcium phosphate precipitate and water.
9. Solid copper and sulfuric acid react to form copper (II) sulfate precipitate, water and sulfur dioxide gas.
10. Hydrogen gas and aqueous nitrogen monoxide react to form water and nitrogen gas.

For the previous 10 questions, identify the type of reaction that occurred.